Dynamic Factor Models

Eric Hillebrand Siem Jan Koopman Editors



Ebook Dynamic Factor Models Advances Econometrics

Jushan Bai, Serena Ng

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Dynamic Factor Models Siem Jan Koopman, Eric Hillebrand, 2016-01-08 This volume explores dynamic factor model specification asymptotic and finite sample behavior of parameter estimators identification frequentist and Bayesian estimation of the corresponding state space models and applications **Applied Multivariate Statistical Analysis** Wolfgang Härdle, Léopold Simar, 2003 These are the exciting memoirs of an articulate black lady who survived the destitution of her childhood by scavenging in the Mobile Alabama city dump She lived in the segregated South during the era of Civil Rights demonstrations As a mother of six she overcame the shock of discovering she was one of several wives with whom her itinerant preacher husband claimed conjugal privileges She became an artist s model in Boston where she experienced racist terror and love of a white man This is a beautiful upbeat book of love happiness and the survival of the spirit Learning for Big Dependent Data Daniel Peña, Ruey S. Tsay, 2021-03-16 Master advanced topics in the analysis of large dynamically dependent datasets with this insightful resource Statistical Learning with Big Dependent Data delivers a comprehensive presentation of the statistical and machine learning methods useful for analyzing and forecasting large and dynamically dependent data sets The book presents automatic procedures for modelling and forecasting large sets of time series data Beginning with some visualization tools the book discusses procedures and methods for finding outliers clusters and other types of heterogeneity in big dependent data It then introduces various dimension reduction methods including regularization and factor models such as regularized Lasso in the presence of dynamical dependence and dynamic factor models The book also covers other forecasting procedures including index models partial least squares boosting and now casting It further presents machine learning methods including neural network deep learning classification and regression trees and random forests Finally procedures for modelling and forecasting spatio temporal dependent data are also presented Throughout the book the advantages and disadvantages of the methods discussed are given The book uses real world examples to demonstrate applications including use of many R packages Finally an R package associated with the book is available to assist readers in reproducing the analyses of examples and to facilitate real applications Analysis of Big Dependent Data includes a wide variety of topics for modeling and understanding big dependent data like New ways to plot large sets of time series An automatic procedure to build univariate ARMA models for individual components of a large data set Powerful outlier detection procedures for large sets of related time series New methods for finding the number of clusters of time series and discrimination methods including vector support machines for time series Broad coverage of dynamic factor models including new representations and estimation methods for generalized dynamic factor models Discussion on the usefulness of lasso with time series and an evaluation of several machine learning procedure for forecasting large sets of time series Forecasting large sets of time series with exogenous variables including discussions of index models partial least squares and boosting Introduction of modern procedures for modeling and forecasting spatio temporal data Perfect for PhD

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